November, 18, 2016

- TO: School of Liberal Arts Undergraduate Curriculum Committee
- FROM: Medical Humanities and Health Studies Program

SUBJECT: Proposal for a Bachelor of Science in Medical Humanities & Health Studies (B.S., MHHS)

Attached please find a proposal to add a Bachelor of Science degree program to our existing baccalaureate program in Medical Humanities and Health Studies (MHHS). The B.S. in MHHS will fill a critical need for a four-year baccalaureate degree that includes the requisite knowledge in the life and physical sciences, as well as the essential liberal arts foundation required for students to develop both scholarly curiosity and professional maturity. This can be accomplished with a fourteen (14) credit hour modification to existing Liberal Arts baccalaureate competencies, and a three (3) credit hour change to the major core. Details are presented in the following proposal and appendices.

Degree Proposal: Bachelor of Science in Medical Humanities & Health Studies (B.S., MHHS)

ISSUE & JUSTIFICATION:

There are increasing opportunities for careers in the life sciences, but a science baccalaureate education alone cannot prepare all students for the essential skills required of mature, self-aware, and scholarly life-long learners. This includes, for example, skills required of successful health care professionals who work with patients that are subject to all the diverse factors that influence their health and illness and effective life-science based therapies. The Medical Humanities and Health Studies major in the School of Liberal Arts was developed, in part to meet this need. At the same time, students planning careers and graduate work in the health professions require a growing number of pre-requisite life and physical science courses in their undergraduate curricula in order to not only meet entrance requirements, but prepare adequately for many careers in the life sciences.

The need for a more complete science and liberal arts foundation, coupled with the legislative imperative to finish baccalaureate education in four years (120 credit hours) has given rise to an inability of many students to fit both the science and liberal arts essentials in the existing bachelor of arts degree in the School of Liberal Arts' Medical Humanities and Health Studies (MHHS) program. A Bachelor of Science degree using the recently approved Liberal Arts competency requirements can allow for additional math and science coursework, while retaining the core knowledge and methods of inquiry which makes a liberal arts education so valuable. This can be done with the new flexibility of fourteen (14) credit hours of baccalaureate competency requirements, and a three (3)-credit-hour modification to the MHHS major core. This proposal is for the fourteen credit hours of baccalaureate competencies previously required in foreign language to be apportioned as follows: six to eight (6-8) credit hours of natural science and mathematics beyond the IUPUI general education core, and six to eight (6-8) credits of liberal arts courses with an international dimension, again beyond the IUPUI general education core. The MHHS major core requirement for the B.S. degree will have 3 fewer credit hours of electives because it will require a 200- to 400-level three (3) credit hour minimum course in statistics. In order to maintain the integrity of this liberal arts degree, this proposal does not allow any additional double-counting of courses between the IUPUI general education core and the baccalaureate competency requirements for the B.S. degree in MHHS.

DISCUSSION

The science and mathematics undergraduate pre-requisites for health professions schools are substantial and have increased in recent years. Students need anywhere from 7 to 22 credit hours *beyond* the existing electives available in the Liberal Arts B.A. degree. While the proposed change to the B.S. MHHS will not completely cover the additional pre-requisite credit hours for the Pharmacy (22 credit hours) or Dentistry (14 credit hours), it does help to cover the prerequisites for popular graduate professional programs in **Medicine**, **Physician Assistant**, **Optometry** and **Physical Therapy**. The reapportioned 6-8 credit hours in science covers virtually all of the remaining credits needed, thus making it possible for the student taking a B.S. in MHHS to be able to complete the degree within the state-mandated120 credit hours.

In addition, the MHHS major has attracted a number of undergraduates who began as science majors interested in laboratory or clinical health careers, but who have decided instead to work in other fields of health research, support, education, and administration for which the humanities and social science perspectives of the Liberal Arts are especially useful. It is not uncommon, with an increasing campus population of traditional, young adult students entering directly posthigh school, to have students use their baccalaureate experience to explore and change choices of careers and, thus, majors. IUPUI is attractive to many primarily because of the existence of life/health science and other related graduate programs. These students typically begin as science majors, accumulating a large number of credits in life science courses in their first and second years on campus. When deciding that other careers may be better personal paths, the sequential nature of the B.A. foreign language requirement necessitates taking a new foreign language no later than the start of a student's junior year, especially if the student has not taken a foreign language since high school. The new B.S. in MHHS will allow these students to complete their undergraduate program without need of extending their studies because of a late transfer into the School of Liberal Arts.

The remaining 6-8 credit hours of courses re-appropriated in this proposal consist of liberal arts courses with an international dimension. The key feature of these courses is that they require the student to explore beyond the bounds of the U.S. and American life, i.e., taking courses involving the crossing of national borders. Students can choose to take foreign language courses with these credits, but are not required to do so. A list of liberal arts courses with an international dimension, drawn from the Global and International Studies Program, is provided in Attachment B.

We anticipate that the main constituency for the proposed B.S. in MHHS will be pre-professional preparatory students and students deciding upon a change of career paths, plus a select group of students wishing to double major in a science and Liberal Arts MHHS degree. We have found great interest among students for such an academic path since the implementation of the B.A. in MHHS in 2012, and with the legislatively-driven campus and school curriculum changes in 2013. Many of our best and brightest majors and minors have suggested a need for this option, seeking to have more upper-level liberal arts courses in their pre-professional course of study. The B.S. in MHHS answers this request and prepares more fully educated future health care providers, managers, policy-makers and consumers.

SUMMARY of CHANGES

Key Features:

- 1. No changes to the IUPUI general education core.
- 2. Replace fourteen (14) credit hours of Liberal Arts-required foreign language with six to eight (6-8) credit hours of life and physical science courses beyond the IUPUI general education core, and six to eight (6-8) credit hours of liberal arts courses with an international focus.
- 3. Create a major core requirement for the B.S. in MHHS that adds a three (3) credit hour statistics course. The remaining nine (9) credit hours of electives will be chosen from three different disciplines of medical humanities and/or health social science courses to assure the broadest interdisciplinary exposure.
- 4. Total credit hours in major remains the same, 30.

ATTACHMENTS:

- A. Summary of Changes
- B. List of Liberal Arts Courses with an International Dimension taken from the Global and International Studies B.A. curriculum
- C. B.S., MHHS Major Requirements
- D. Degree Map for New B.S. MHHS degree
- E. Summary of elective credits needed to cover pre-requisites for health professions graduate schools

Attachment A: Summary of Proposed Changes to LIBERAL ARTS BACCALAUREATE REQUIREMENTS for BACHELOR OF SCIENCE in MEDICAL HUMANITIES & HEALTH STUDIES (B.S., MHHS)

IUPUI General Education Core Requirements, 30 credits total: NO CHANGE Baccalaureate Competencies in addition to the IUPUI General Education Core requirements UNCHANGED First Year Experience, 1-3 credits Writing Proficiency, additional 3 credits minimum Arts and Humanities, additional 3 credits minimum Social Sciences, additional 3 credits minimum Computer Proficiency, 3 credits minimum Can be completed as part of IUPUI general education core: Analytical Reasoning Can be completed as part of IUPUI general education Life and Physical Sciences Laboratory core: Life & Physical Sciences Advanced Courses: 10 to complete 40 credits including major Credits for Major, 30 credit hours Electives **TO BE CHANGED Current Requirements Proposed Changes** World Language and Culture: ; up to **Replace with required 6-8 credit hours of Liberal Arts** 14 credit hours courses with an international dimension [See Attachment B]. Must be taken in addition to IUPUI Gen Education Core. Cannot double-count toward any course in the major. Replace with required 6-8 credit hours of 100-300-level Life Science, Physical Science, or Math courses (MATH 119 or higher). Must be taken in addition to IUPUI Gen Education Core. Cannot double-count toward any course in the major.

Foreign Language	Courses:
ARABIC (NELC)	A131, A132, A200, A250, A300
CHINESE (EALC)	C131, C132, C201, C202, C301, C320
FRENCH (FREN)	F131, F132, F203, F204, F300, F307, F326, F328, F331, F360, F371, F380, F451, F452, F454, F460, F461
GERMAN (GER)	G131, G132, G203, G204, G303, G304, G331, G333, G355, G365, G409, G410, G431
ITALIAN (ITAL)	M131, M132, M200, M250
JAPANESE (EALC)	J131, J132, J201, J202, J301, J302, J310, J330, J393, J394, J401, J402
LATIN (CLAS)	L131, L132, L200, L250
SPANISH (SPAN)	S131, S132, S142, S143, S160, S161, S203, S204, S311, S313,
	S315, S317, S318, S319, S323, S326, S360, S363,
	S407, S408, S411, S412, S419, S421, S426, S425, S427, S428,
	\$429, \$430, \$440, \$441, \$445, \$450, \$455, \$468, \$470

Attachment B: IU, Liberal Arts (IUPUI) Courses with an INTERNATIONAL DIMENSION

International Dimension Courses Taught in English:

AFRO A303* Afro Brazilian Culture and Capoeira Angola

AFRO A303* Women of the African Diaspora

AFRO A306 African Diaspora: Global Perspective

ANTH A104 Introduction to Cultural Anthropology

ANTH A460* African Health-Historical and Cultural Context

ANTH A460* Anthropology of Migration and Transnationalism

ANTH A460* Global Migrations

ANTH E300* Cultures of Mexico and Central America

ANTH E391 Women in Developing Countries

ANTH E402 Gender in Cross Cultural Perspective

ANTH E411 Wealth, Exchange and Power in Anthropological Perspective

ANTH E421 Anthropology of Aging

ANTH E455 Anthropology of Religion

CLAS A414 The Art and Archaeology of Rome

CLAS A418 Myth and Reality in Greek Art

CLAS C310 Classical Drama

CLAS C311 Classical Epics

CLAS C350 Greek Literature in Translation

CLAS C351 Golden Age of Athens

CLAS C361 Golden Age of Rome

CLAS C386 Greek History

CLAS C387 Roman History

CLAS C412 Art and Archaeology of the Aegean

CLAS C413 Art and Archaeology of Greece

CLAS C491* Women and Gender in the Classical World COMM C482 Intercultural Communications EALC E231 Japan : The Living Tradition EALC E472 Modern Japanese Fiction **ECON E303 Survey of International Economics** ENG L245 Introduction to Caribbean Literature ENG L301 Critical and Historical Survey of English Literature I ENG L348 19th Century British Fiction ENG L366 Modern Drama: Irish Drama ENG L378 Renaissance and Restoration-Period Writing by British Women ENG L406* Caribbean Literature and Culture ENG L406* Caribbean Women Writers ENG Z301 History of the English Language FILM C380 French Cinema GEOG G110 Introduction to Human Geography GEOG G130 World Geography GEOG G321 Geography of Europe GEOG G323 Geography of Latin America GEOG G324 Geography of the Caribbean GEOG G363 Landscapes & Cultures of the Caribbean GEOG G478 Global Change, Food & Farming Systems GER G265 German Culture in English Translation GER G340 German Language and Society: Past and Present GER G407 Knights, God and the Devil GER G408 Love/Nature in the Age of Romanticism HIST B309 Britain Before 1688 HIST B310 Britain Since 1688 HIST B323 History of the Holocaust HIST B341 History of Spain and Portugal HIST B351 Barbarian Europe 200-1000 HIST B352 The Age of Chivalry 1000-1500 HIST B353 The Renaissance HIST B354 The Reformation HIST B355 Europe: Louis XIV to French Revolution HIST B356 French Revolution and Napoleon HIST B357 Modern France HIST B359 Europe—Napoleon to First World War I HIST B360 Europe—Napoleon to First World War II HIST B361 Europe in the Twentieth Century I HIST B362 Europe in the Twentieth Century II HIST B383 European Intellectual History I HIST B384 European Intellectual History II HIST B393 German History: From Bismarck to Hitler

HIST B421 Topics in European History HIST B425 The Second World War HIST B426 Genocide and Its Origins HIST C386 Greek History HIST C388 Roman History HIST D313 Russian Social and Cultural History, 1801-1917 HIST D314 Soviet Social and Cultural History HIST D428 Eastern Europe: 1914 to Present HIST E432 History of Africa II HIST F341 Latin America: Conquest and Empire HIST F342 Latin America: Evolution and Revolution Since Independence HIST F346 Modern Mexico HIST F347 US-Latin American Relations HIST G451 Traditional Asia HIST G452 Modern Asia HIST G461 Imperial China HIST G467 History of Japan I HIST G468 History of Japan II HIST G485 Modern China HIST H108 Perspectives on the World to 1800 HIST H109 Perspectives on the World: 1800-Present HIST H113 History of Western Civilization I HIST H114 History of Western Civilization II HIST H207 Modern East Asian Civilization HIST H221 Studies in African, Asian, or Latin American History HIST H227 African Civilization HIST H300 History, Environment, and the Global Anthropocene HIST H364 History of Medicine and Public Health HIST H418 International Humanitarian Assistance HIST H421 Topics in African, Asian, or Latin American History HIST H425 History of Hospitals HIST H425 Middle Eastern History HIST H477 British Imperialism, 1484-present INTL I100 Intro to International Studies INTL I300* Human Rights INTL I300* Political Ideologies in the Modern World JOUR J414 Int'l News Gathering Systems MHHS M492 China & US Healthcare: Cross-Cultural Comparison PHIL P307 Classical Philosophy PHIL P314 Modern Philosophy PHIL P323 Society and State in the Modern World PHIL P349 Philosophies of China PHIL P383 Philosophy of Krishnamurti

POLS Y217 Introduction to Comparative Politics

POLS Y219 Introduction to International Relations

POLS Y332 Russian Politics

POLS Y335 West European Politics

POLS Y337 Latin American Politics

POLS Y338 African Politics

POLS Y339 Middle Eastern Politics

POLS Y341 Authoritarian Regimes

POLS Y346 Comparative Politics in Developing Countries

POLS Y350 Politics of the European Union

POLS Y363 Comparative Foreign Policy

POLS Y367 International Law

POLS Y370 Politics of Islam

POLS Y373 Politics of Terrorism

POLS Y374 International Organization

POLS Y375 War and International Conflict

POLS Y376 International Political Economy

POLS Y377 Globalization

POLS Y388 Marxist Theory

REL R212 Comparative Religions

REL R257 Introduction to Islam

REL R305 Islam and Modernity

REL R309 Contemporary Middle East

REL R310 Prophecy in Ancient Israel

REL R323 Yuppie Yogis and Global Gurus

REL R328 Religions of the African Diaspora

REL R344 Reformations of the Sixteenth Century

REL R368 Religion and Healing

REL R373 Pilgrimage in World Religions

REL R393 Comparative Religious Ethics

SPAN S330 Studies in Hispanic Culture

WLAC F360 Women and Islam

WOST W300* Women and Islam

WOST W300* Women's Rights Around the World

NOTE: *Variable Title Topics courses (*) are restricted to titles listed here.

Additions to this list can be proposed to the MHHS Program faculty. Contact jizukac@iupui.edu.

Attachment C: B.S., MHHS MAJOR REQUIREMENTS

Bachelor of Science in Medical Humanities and Health Studies (B.S., MHHS) Major Course Planning Sheet

The **Bachelor of Science degree** with a major in **Medical Humanities and Health Studies (MHHS)** requires satisfactory completion of the following:

- completion of IUPUI general education and baccalaureate competency requirements for a liberal arts B.S. in MHHS;
- completion of a total of **30** credit hours, with a minimum grade of C in each course used for the major (see below);
- a course will count only once, as either a core or an elective course;
- 120 credit hours in total.

Major Requirements:

Core Courses (7 courses/21 credit hours):

Semester Grade

MHHS-M 301: Perspectives on Health, Disease, and Healing (3 credit hours) MHHS-M 495: Seminar in Med Humanities and Health Studies (3 credit hours) Prerequisite: Successful completion of MHHS M301

Two (2) Medical Humanities Core Courses (6 credit hours), chosen from the following:

COMM-C 392: Health Communication ENG-L 431: Topics in Literary Study: Illness Narrative HIST-H 364: History of Medicine and Public Health PHIL-P 393: Biomedical Ethics REL-R 384: Religion, Ethics, and Health

Two (2) Health Social Science Core Courses (6 credit hours), chosen from the following:

ANTH-E 445: Medical Anthropology ECON-E 307: Current Economic Issues (Topics): Health Economic Issues – or – ECON-E 387: Health Economics GEOG-G 410: Medical Geography SOC-R 381: Social Factors in Health and Illness – or – SOC-R 382 Social Organization of Healthcare REL-R 368: Religion and Healing

One (1) Statistics Course (3 credit hours)

Electives: (3 courses/9 credit hours), chosen from the following:

[NOTE: Electives must come from three (3) different departments/disciplines.]

ANTH-A 460 Topics in Anthropology: Forensic Anthropology ANTH-B 370 Human Variation** ANTH-B 468 Bioarchaeology ANTH-B 480 Human Growth and Development ANTH-E 391 Women in Developing Countries** ANTH-E 411 Wealth, Exchange, and Power in Anthropological Perspective** Grade ANTH-E 421 Anthropology of Aging ANTH-E 445 Medical Anthropology COMM-C 392 Health Communication COMM-C 400 Health Provider-Consumer Communication ECON-E 307 Current Economic Issues (Topics): Health Economic Issues – or – ECON-E 387 Health Economics ENG-L 431 Topics in Literary Study: Illness Narrative GEOG-G 410 Medical Geography HIST-H 364 History of Medicine and Public Health HIST-H 373 History of Science & Technology I** HIST-H 373 History of Science & Technology II** HIST-H 418 History of International Humanitarian Assistance MHHS-M 420 Culture of Mental Illness – Literary Representations MHHS-M 492 Topics in MHHS: African Health- Historical and Cultural Contexts MHHS-M 492 Topics in MHHS: Health, Food & Culture MHHS-M 492 Topics in MHHS: The Literature of Addiction MHHS-M 492 Topics in MHHS: Medicine, Humanities & the Law PHIL-P 322 Philosophy of Human Nature PHIL-P 383 Topics in Philosophy: Death, Dying & Immortality PHIL-P 383 Topics in Philosophy: Ethics, Autonomy & Consent PHIL-P 383 Topics in Philosophy: Reproductive Ethics PHIL-P 393 Biomedical Ethics **REL-R 300 Yoga Traditions** REL-R 323 Yuppie Yogis and Global Gurus REL-R 368 Religion and Healing** REL-R 383 Religions, Ethics, U.S. Society** REL-R 384 Religion, Ethics, and Health SOC-R 320 Sexuality and Society SOC-R 321 Women and Health SOC-R 327 Sociology of Death and Dying SOC-R 381 Social Factors in Health and Illness SOC-R 382 Social Organization of Health Care SOC-R 385 AIDS in Society SOC-R 410 Alcohol, Drugs and Society SOC-R 415 Sociology of Disability SOC-R 485 Sociology of Mental Illness SOC-R 495 Topics: Sociology of Food

30 Total Credit Hours Required to complete the major.

NOTES:

<u>Semester</u>

- 1. Courses marked with ** can be taken for MHHS major elective with **prior** instructor and faculty mentor approval to ensure an adequate focus on health/medical issues.
- 2. Health-related "Topics" courses are specific to the variable titles indicated on this list.
- 3. RE: Minors in other departments/schools Only **one (1)** course can double-count between the MHHS major requirements and that of any non-MHHS minor.
- 4. RE: Double Majors Only **two (2)** courses can double count between the MHHS major requirements and any second major.

Approved:

Date:

Attachment D: SAMPLE DEGREE MAP for B.S., MHHS (pre-medical preparation)

YEAR ONE				
FALL	Course	Units	Min. Grade	
ENG-W 131	Gen Ed Core Communication -Writing Competency !	3	С	
BIOL-K 101	Gen Ed Core Life & Physical Sciences Competency w/ Lab	5		
MATH 159000	Gen Ed Core Analytical Reasoning (Math)	3		
SOC 100	Gen Ed Core Social Sciences Competency	3		
SLA-100	Liberal Arts First Year Experience	2		
	Lab Science Verified	Х		Term Units 16
SPRING	Course	Units	Min. Grade	
COMM-R110	Gen Ed Core Communication -Speaking and Listening Competency	3		
BIOL-K 103	Gen Ed Core (1 cr) & Life & Physical Sciences Competency (4 crs)	5		
CSCI-N 207	Gen Ed Core Analytical Reasoning (Comp Sci)	3		
CHEM-C 105/125	Life & Physical Sciences Competency w/ Lab (4 crs) + Elective (1 cr)	5		
	Computer Proficiency Verified	х		Term Units 16
				Year Units
				32

YEAR TWO				
FALL	Course	Units	Min. Grade	
ENG-W 231	Liberal Arts Baccalaureate Competency: Writing Proficiency	3	С	
PHIL-P 100	Gen Ed Core Arts & Humanities Competency	3		
CLAS-L 131	Gen Ed Core Cultural Understanding Competency	3		
HIST-H 113	Gen Ed Core Third Arts & Humanities or Social Sciences Competency	3		
CHEM-C 106/126	Elective	5		
				Term Units 17
SPRING	Course	Units	Min. Grade	
CHEM-C 341/343	300/400 Level Elective - Organic Chem I	5		
REL-R 133	Liberal Arts Baccalaureate Competency: Addl. Arts & Humanities	3		
PSY-B 110	Liberal Arts Baccalaureate Competency: Addl. Social Science	3		
	MHHS M301: Perspectives on Health, Disease and Healing !	3	С	
		-		Term Units 14
				Year Units 31

NOTES:

Items in Bold apply to B.S., MHHS major

Items in Italics represent prerequisite courses for medical school admission.

Items in Blue represent 14 credit hours re-appropriated in the B.S., MHHS proposal.

YEAR THREE				
FALL	Course	Units	Min. Grade	
COMM-C 392	MHHS Medical Humanities Core Course !	3	С	
CHEM-C 342/344	300/400 Level Elective - Organic Chem II	5		
HIST-H 364	MHHS Medical Humanities Core Course	3	С	
SOC-R 381	MHHS Health Social Science Core Course !	3	С	
				Term Units 14
SPRING	Course	Units	Min. Grade	
ECON-E 387	MHHS Health Social Science Core Course	3	С	
	300/400 Level Elective	3		
PHYS-P 201	Life & Physical Sciences w/ Lab	5		
BIOL-K 483	300/400 Level Elective - Biochemistry	3		
			-	Term Units
				14
				Year Units
				28

YEAR FOUR				
FALL	Course	Units	Min. Grade	
	MHHS Major Elective	3	С	
	MHHS Major Elective	3	С	
SOC-R 359	MHHS Statistics Core	3	С	
PHYS-P 202	Life & Physical Sciences w/ Lab	5		
	Milestone: Notify School of Intent to Graduate			
				Term Units 14
SPRING	Course	Units	Min. Grade	
	MHHS Major Elective	3	С	
	MHHS M495: Capstone Seminar in MHHS	3	С	
ANTH-A 104	Liberal Arts Baccalaureate Competency: International Dimension	3		
AFRO-A 306	Liberal Arts Baccalaureate Competency: International Dimension	3		
	300/400 Level Elective	3		
				Term Units 15
				Year Units
				29

TOTAL CREDIT HOURS:	12	.0	
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Attachment E: SUMMARY OF ELECTIVE CREDITS Needed to Cover Pre-Requisites for Health Professions Graduate School

Health Professions Programs requiring > 21	Prerequisite credit hours	Co	vered by exist	ting:	Cr. Hrs. required beyond B.A., MHHS Electives (21)
cr. hrs. of electives	* Total Credit	IUPUI			
	Hours	Gen. Ed.	Electives	Advanced	
Medicine M.D.	47	12	28	10	7
Physician Assistance M.S.	45	6	29	10	8
Physical Therapy Ph.D.	42	9	25	8	7
Optometry O.D.	49	9	30	10	9
Dentistry D.D.S.	51	6	35	10	14
Pharmacy	59	9	43	10	22

* Total prerequisite credit hours does not account for prerequisite math courses beyond the IUPUI General Education curriculum.

Health Professions Programs requiring no	Prerequisite credit hours	Cov	vered by exist	ting:	Cr. Hrs. required beyond B.A., MHHS Electives (21)
additional elective cr. hrs.	* Total Credit	IUPUI			
	Hours	Gen. Ed.	Electives	Advanced	
Accelerated Track (post-					
baccalaureate) Nursing	48	27	14	7	0
Occupational Therapy					
M.S. **	22	6	6	9	0

** Occupational Therapy becoming a doctoral program. Prerequisites may change.